

NATIVE AMERICAN WATER ASSOCIATION - INDIAN HEALTH SERVICE

BIOLOGICAL WASTEWATER TREATMENT PROCESS CONTROL AND TROUBLESHOOTING MBR & SBR PLANTS

COURSE AGENDA

**DAY 1**

**BIOLOGICAL TREATMENT SYSTEM CONFIGURATIONS**

8:00 – 8:30	Welcome and Registration – Overview of Course
8:30 – 9:30	Ammonia and Nitrification
9:30 – 10:15	Nitrate and Denitrification
10:15 – 10:30	Break
10:30 – 11:15	Phosphorus Removal Approaches
11:00 – 11:45	Is there a “Best System?”
11:45 – 1:00	Lunch

**ESTABLISHING A FACILITY-SPECIFIC PROCESS CONTROL STRATEGY**

1:00 – 1:45	Daily testing - Settleometer
1:45 – 3:00	Interpretation of results
3:00 – 3:15	Break
3:15 – 5:00	Range and control of treatment parameters
5:00	Adjourn

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**DAY 2**

**BIOLOGICAL SYSTEM TROUBLESHOOTING**

8:00 – 9:00	Biological Inhibition and Toxicity Causes
9:00 – 10:00	Recovering From Biological Upsets
10:00 – 10:15	Break
10:15 – 11:45	How to Protect Your Treatment System
11:45 – 1:00	Lunch
1:00 – 3:00	Case Studies
3:00 – 3:15	Break
3:15 – 5:00	Individual and Group Problem-Solving
5:00	Adjourn

Each class participant will receive a copy of:

- Nitrogen Control of Wastewater Treatment Plants, Second Edition, 2009
- Copy of Biological Wastewater Treatment Toxicity Recovery Plan, 2016
- Copies of all PowerPoint slides.